

Catalog No.: RP03401LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	5305	P48426

No tag

PIP4K2A; PI5P4KA; PIP5K2; PIP5K2A;
Phosphatidylinositol 5-phosphate 4-
kinase type-2 alpha; PI5P4Kalpha;
PIP4KII-alpha

Source E. coli	Purification ≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.
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Calculated MW	Observed MW
46.2 kDa	45-55 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 μ m filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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Phosphatidylinositol-5-phosphate 4-kinase type-2 alpha is an enzyme that in humans is encoded by the PIP4K2A gene. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-4-phosphate on the fifth hydroxyl of the myo-inositol ring to form phosphatidylinositol-4,5-bisphosphate. Through genome wide association studies (GWAS), some of the single nucleotide polymorphisms (SNPs) located in this gene have been noticed to be significantly associated with susceptibility of childhood acute lymphoblastic leukaemia in ethnically diverse populations. THZ-P1-2 (covalent inhibitor) as well as BAY-091 and BAY-297 (reversible inhibitors) have been reported as potent and selective PIP4K2A inhibitors.

Recombinant Human PIP4K2A Kinase is produced by E. coli expression system. The target protein is expressed with sequence (Ala2-Thr406) of Human PIP4K2A (Accession #P48426) fused with No tag.

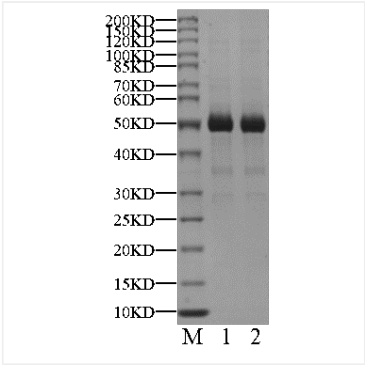
The activity of PIP4K2A is based on the ADP-GLO kinase activity assay quantifies kinase activity by measuring the conversion of ATP to ADP catalyzed by the kinase. Specific reagents are used to convert the ADP in the reaction back to ATP, resulting in the production of a luminescent signal.

Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

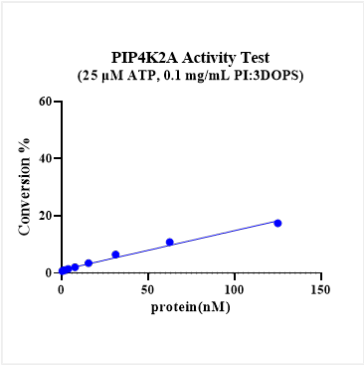
Aliquots below 10 µL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human PIP4K2A Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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